

LITHOLOGY OF CORE SAMPLES SUBMITTED FOR ASSAY<sup>1/</sup>

Whatley corehole 3, El Paso Natural Gas Company, 413.3 feet W. and 434.5 feet N. of the E. 1/4 corner of sec. 33, T. 6 S., R. 100 W., Garfield County, Colorado

Surface Elevation 5427.9 feet    Total Depth 560 feet    Mahogany Marker 493.6 feet

From	To	Description
0	100	No sample.
100	100.6	Marlstone, banded dk gr and bf.
100.6	107.5	Tuff, lt gr, with thin stringers of lt br marlstone.
107.5	111.4	Silty marlstone, irregularly banded and contorted dk gr and lt br.
111.4	112.5	Tuff, bluish gr, with numerous small grains of pyrite.
112.5	113.5	Silty marlstone, bf.
113.5	114.7	Tuff, lt gr and dk gr, with numerous small grains of pyrite.
114.7	115.5	Tuff, br and marlstone, bf, contorted banding.
115.5	117	Marlstone, banded lt tan and lt gr.
117	118	Tuff, dk gr, coarse-grained: A 3" band of bf marlstone occurs at 117.5 feet.
118	121.4	Silty marlstone, lt tan and lt gr.
121.4	124	Marlstone, dk gr, and tuff, bf, irregularly banded and contorted.
124	125	Tuff, bluish-gr, with thin irregular stringers of br marlstone.
125	128.5	Marlstone and silty marlstone, gr and br.
128.5	130	Marlstone and tuff, irregular contorted mixture of lt gr tuff and lt br marlstone.
130	132.4	Marlstone, dirty-wh to bf, well-bedded, compact, with numerous small grains of pyrite.
132.4	144.8	Tuff, dirty-wh to buff, some thin zones enriched with analcite.
144.8	147.8	Marlstone, lt gr, with vertical fracture.
147.8	152	Marlstone, predominantly dk gr with irregular contorted banding of lt tan marlstone.
152	152.2	Tuff, gr, coarse-grained.
152.2	157	Marlstone, lt gr and bf, with numerous small grains of pyrite.
157	157.3	Tuff, dirty-wh, with limonite stains.
157.3	159	Marlstone, bf, with numerous small grains of pyrite.
159	166	Marlstone, predominately dk gr irregularly banded and contorted with lt br marlstone, some irregular contorted stringers of wh anhydrite.
166	181	Marlstone, lt gr, bf, and dirty-wh, well-bedded, with numerous small grains of pyrite.
181	183.3	Marlstone, dk gr and dk br.
183.3	194.6	Marlstone, lt gr, bf, lt tan, well-bedded, with numerous small grains of pyrite.

Illustration No. SBR-2271P

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming    February 25, 1958

<sup>1/</sup> Descriptions by H. N. Smith.

# LITHOLOGY OF CORE SAMPLES SUBMITTED FOR ASSAY

Whatley corehole 3, El Paso Natural Gas Company, 413.3 feet W. and 484.5 feet N. of the E. 1/4 corner of sec. 33, T. 6 S., R. 100 W., Garfield County, Colorado (Con.)

Surface Elevation 8427.9 feet Total Depth 560 feet Mahogany Marker 493.6 feet

From	To	Description
277.8	278	Silty marlstone, br, with numerous small crystal cavities and small grains of pyrite.
278	286	Marlstone, gr and br, well-bedded, local distorted area with dirty-wh anhydrite at 278.5 feet. Vug and quartz crystals at 282.6 feet.
286	288	Marlstone, lt br and lt gr, well-bedded. Vug lined with pyrite crystals at 287.9 feet.
288	298	Marlstone, gr and br, well-bedded, some 1/4-1/2" lenses of fine-grained pyrite, few thin spotted areas of wh anhydrite. 1/2" band br spongy tuff at 289 feet. Excellent impressions of willow ? leaves parallel to bedding about 295 feet.
298	305	No sample.
305	322.4	Marlstone, lt gr, gr, and br, well-bedded, compact. A 1/2" band wh tuff occurs at 305.8 feet and 1/4" band of pyrite occurs at 312 feet.
322.4	323	Marlstone, banded dirty-wh and lt br.
323	324	Marlstone, banded blk and tan.
324	330	Marlstone, gr and lt br, with numerous grains of pyrite.
330	345	Marlstone, predominately gr and br, well-bedded, compact, and uniform. A 1/2 and 1" band of bf tuff occur at 330.5 and 330.6 feet. A 4" band of distorted gr tuff and bf marlstone occurs at 341 feet. Numerous small grains of pyrite are present.
345	372.5	Marlstone, dk gr, dk br, and blk, well-bedded, compact, uniform. A 1/2" band of gr tuff occurs at 345.7 feet and a 2" band of gr tuff occurs at 348.2 feet.
372.5	374.8	Marlstone, gr, well-bedded, with numerous small (1/8") areas and thin stringers of wh anhydrite.
374.8	410	Marlstone, dk gr, blk, and br, well-bedded, compact, uniform. A 1/2" band gr tuff occurs at 385 feet.
410	424.2	Marlstone, dk gr, br, and blk, well-bedded, compact, uniform. 1-2" bands of gr tuff occur at 415.2, 416, and 422.9 feet.
424.2	424.6	Tuff, gr and br.
424.6	426	Marlstone, dk gr, well-bedded.
426	426.3	Limestone, gr, fine-grained, with small flecks of wh anhydrite.
426.3	428.6	Marlstone, dk gr, well-bedded, compact, uniform.
428.6	429	Tuff, gr, with thin irregular stringers of bf marlstone.
Illustration No. SBR-2273P		

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming February 25, 1958

# LITHOLOGY OF CORE SAMPLES SUBMITTED FOR ASSAY

Whitely corehole 3, El Paso Natural Gas Company, 413.3 feet W. and 484.5 feet N. of the E. 1/4 corner of sec. 33, T. 6 S., R. 100 W., Garfield County, Colorado (Con.)

Surface Elevation 3427.9 feet Total Depth 560 feet Mahogany Marker 493.6 feet

From	To	Description
535.6	545	Marlstone, banded bf, lt gr, and lt tan.
545	552	Silty marlstone, dirty-wh, massive.
552	560	Marlstone, dirty-wh, bf, tan, well-bedded, compact.
560		Bottom of section.